

1 **REDUCTION OF INTERFERENCE PICKUP IN THE HEADS FOR**
2 **MAGNETIC RECORDING BY MINIMIZING PARASITIC**
3 **CAPACITANCE**

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5 **ABSTRACT OF THE INVENTION**

6 Disclosed is a system and a method for reducing high frequency interference pickup
7 by the read element of the magneto-recording head. The reduction is achieved by reducing
8 the parasitic capacitance between certain elements of the magnetic head. In one embodiment,
9 the areas of the pads and leads, including the areas of the leads over the S1 and the areas of
10 the sensor leads, are reduced. A second implementation involves increasing the separation
11 between the pads and leads and the substrate material. Copper studs or vias may be used to
12 connect the contact pads and the underlying layers. A third implementation includes using a
13 low dielectric constant material as a spacer layer between conductors (leads, pads, magnetic
14 shields) and the substrate.

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